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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/669,021

09/23/2003

Manjari Asawa

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07/20/2007

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EXAMINER

KARIKARI, KWASI

ART UNIT

PAPER NUMBER

2617

NOTIFICATION DATE

DELIVERY MODE

07/20/2007

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/669,021

Applicant(s)

ASAWA ET AL.

Examiner

Kwasi Karikari

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 May 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 05/02/2007 have been fully considered but they are not persuasive.

In the remarks, the Applicant argues, in reference to claim 1, that first, there is nothing in Jonsson that determines whether the incoming packet is non-IP base or IP base; and second, nothing in Jonsson offers any type of mapping.

However, the Examiner disagrees with such assertion. Jonsson specifically mentions that **both Internet Protocol transport layer stack 255/250 and an audio gateway application layer 245** must be implemented on the network side along with the dedicated networking functionality needed for communication with the dedicated terminal side 105 **to support non-Internet Protocol** terminals (e.g., circuit switched type service) on the terminal side 105 (see Jonsson; Par. 0033). Furthermore, Jonsson discusses an exemplary process flow for **sending audio information** from the terminals 105 side to the network (e.g., base station or base station controller) side and sending audio information from the network side to the terminal side, using the exemplary protocol stack and audio flow via signal paths 370 (link layer) and 375 (IP); and the flow decisions are made at both the terminal and network sides (see Jonsson; Pars. 0041-43. Also see Pars. 0026, 0029-31, 0059 and 0065). Therefore, Jonsson clearly discusses conversion of non-IP information into IP information and a communication of non-IP information between non-IP terminal side 105 and IP network

side 110; and the forwarding of IP packets from the network side to the intended destination.

In view of the above remarks, the rejections using Jonsson are maintained as repeated below. These rejections are made FINAL.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Jonsson et al. (U.S 20020146000 A1) (hereinafter Jonsson).

Regarding claims 1 10,17 and 23, Jonsson discloses and

apparatus/method/system/software in a medium for compressing data comprising:

a cell site element associated with a base transceiver station and operable to receive a communications flow (audio communication between wireless terminals, see Pars. [0029 and 0033]) communicated by a mobile station (see Par. 0026), the cell site element including a route processor (RP) and a forwarding path (FP) element, wherein the RP is operable to communicate with a proxy element in order to determine if an incoming packet is associated with an internet protocol (IP) such that, in case

Art Unit: 2617

where the incoming packet is non-IP (audio) the proxy element forms a mapping between a non-IP based protocol associated with the incoming packet (see Pars. [0059]) and an IP protocol in order to generate an IP compatible packet to be processed by the FP element and communicated to a next destination (RTP/UDP/IP, see Pars. [0041-43]).

Regarding claims 2,11,18 and 24, as recited in claims 1 10,17 and 23, Jonsson discloses apparatus/method/system/software in a medium, wherein the mapping performed by the proxy element operates to add a selected one or more of a point to point (PPP) header, an IP header, and a user datagram protocol (UDP) header to one or more frames of the incoming packet (adding of component and end-to-end IP, see Par. [0044]).

Regarding claims 3,12,19 and 25, as recited in claims 2 11,18 and 24, Jonsson discloses apparatus/method/system/software in a medium, wherein one or more fields of the incoming packet may be mapped to one or more fields of a UDP/IP header (audio codec, see Pars. [0025-0029]).

Regarding claims 4,13,20 and 26, as recited in claims 2 11,18 and 24, Jonsson discloses apparatus/method/system/software in a medium, wherein the proxy element is operable to remove one or more of the PPP header, the IP header, and the UDP

header from one or more of the frames before communicating one or more of the frames to a media interface (see Pars. [0055,0058-59]).

Regarding claim 5 as recited in claim 1, Jonsson discloses apparatus/method/system/software in a medium, where the FP element is an acceleration engine operable to process IP communication flows in order to provide a selected one or more of routing operations, quality of service selected operations, compression operations, and fast-switching operations (see Pars. [0023 and 0025]).

Regarding claim 6 as recited in claim 1, Jonsson discloses the apparatus, wherein the cell site element is operable to extract a high-level data link control (HDLC) payload from the packet and to perform a compression process on the HDLC payload in order to the number of bytes associated with the incoming packet (see Pars. [0038-42]), the cell site element being further operable to build a key that maps (encoding and decoding) the HDLC payload associated with the packet to the key, the key being broken into segments that are positioned into a selected one or more of a source internet protocol address field a user datagram protocol source port field and a UDP destination port field of a UDP packet, the UDP packet being sent to the RP of the cell site element such that it may be directed to a next destination (see Pars. [0058-59]).

Regarding claim 7 as recited in claim 6, Jonsson discloses the apparatus, wherein the cell site element is operable to construct the UDP packet, and wherein remaining fields of the HDLC payload may be copied and positioned into a payload field of the UDP

Packet (see Pars. [0025 and 0058]).

Regarding claim 8 as recited in claim 6, Jonsson discloses the apparatus further comprising: an aggregation node associated with a base station controller and operable to receive a point to point protocol (PPP) over HDLC packet that corresponds to the UDP packet from the cell site element (end-to-end communication, see Pars. [0042, 0044 and 0058-59]).

Regarding claims 9 and 16 as recited in claims 6 and 10, Jonsson discloses the apparatus further, wherein the FP processes the IP compatible packet and then returns it to the such that it may be communicated over an outgoing interface to a next destination (see Par. [0042 and 0051]).

Regarding claim 14, as recited in claim 11, Jonsson discloses apparatus/method/system/software in a medium, where the FP element is an acceleration engine operable to process IP communication flows in order to provide a selected one or more of routing operations, quality of service selected operations, compression operations, and fast-switching operations (see Pars. [0023 and 0025]).

Regarding claim 15, as recited in claim 10, Jonsson discloses the method further comprising: receiving a point to point protocol (PPP) over HDLC packet that corresponds to a UDP packet associated with the incoming packet (see Pars. [0042, 0044 and 0058-59]).

Regarding claims 22 and 28 as recited in claims 18 and 24, Jonsson discloses the system/medium further, wherein the FP processes the IP compatible packet and then returns it to the such that it may be communicated over an outgoing interface to a next destination (see Par. [0042 and 0051]).

Regarding claim 21, as recited in claim 18, Jonsson discloses the system further comprising: receiving a point to point protocol (PPP) over HDLC packet that corresponds to a UDP packet associated with the incoming packet (see Pars. [0042, 0044 and 0058-59]).

Regarding claim 27 as recited in claim 24, Jonsson discloses the medium further comprising: receiving a point to point protocol (PPP) over HDLC packet that corresponds to a UDP packet associated with the incoming packet (see Pars. [0042, 0044 and 0058-59]).

Conclusion

3. **Examiner's Note:** Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully

consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

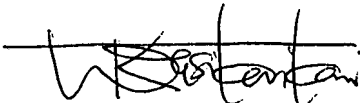
Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kwasi Karikari whose telephone number is 571-272-8566. The examiner can normally be reached on M-F (8 am - 4pm). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, *Rafael Pérez-Gutiérrez* can be reached on 571-272-7915. The fax phone number for the organization where this application or proceeding is assigned is 571-

Art Unit: 2617

273-8566. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Kwasi Karikari
Patent Examiner.
07/04/2007



JOSEPH FEILD
SUPERVISORY PATENT EXAMINER